

FALL 2016

in the Field

THE FIELD MUSEUM MEMBER MAGAZINE



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ON THE COVER

Master tattoo artist Whang-od Oggay carries on the Kalinga people's ancient tradition of tattooing. Learn more in *The Field Museum's* new exhibition, *Tattoo*. (See page 4.)

© JAKE VERZOSA, 2011

The Field
Museum

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dear member

The Field Museum is built upon generations of support from families. Indeed, the Museum was founded largely through the philanthropy of the Field Family and a gift of \$1 million from Marshall Field I in 1893. Since then, various Fields—from one generation to the next—have helped sustain the Museum in its mission to conduct scientific research and disseminate knowledge to the world.

It is with warm gratitude that I would like to recognize two members of the Field Family who serve on the Board of Trustees: Jamee Field Kane and her father, Marshall Field V. Marshall has been a trustee since 1966, and the Museum will honor his 50 years of service this fall at the Women's Board Gala. (The Women's Board is also celebrating its 50th anniversary this year.)

In appreciation of his long-standing commitment to the Museum, we gratefully recognize Marshall's contributions in this issue. We also acknowledge the support of the many other families who have given generously over the years. The Field Loyalty Club inducts those individuals who have been Museum members for 20 years or more. The names of the Class of 2015 are listed with pride inside this issue.

No matter the size of your contribution, we thank you for your continued support of the Museum.

RICHARD W. LARIVIERE, PHD
PRESIDENT AND CEO



GN92244_019AD / JOHN WEINSTEIN

Rhonda Holy Bear,
The Last Lakota
Horse Raid, 1991
Lent by Joyce
Chelberg



Chris Pappan,
Red Owl's
Sacrifice, 2014

RHONDA HOLY BEAR and CHRIS PAPPAN

Franck Mercurio, Editor

THIS FALL, THE FIELD MUSEUM PRESENTS NEW EXHIBITIONS FEATURING THE WORK OF TWO CONTEMPORARY NATIVE AMERICAN ARTISTS. Rhonda Holy Bear (Cheyenne River Lakota) creates detailed figures inspired by the history of Plains Indian art and culture, while Chris Pappan (Kanza, Osage, and Cheyenne River Lakota) renders images influenced by ledger art. The work of both artists is based on deeply rooted art forms, yet each engages with their heritage in unique ways. Their art reflects the dynamism of Native cultures, which are grounded in tradition yet open to change.

The Museum's Curator of North American Anthropology Collections Alaka Wali, PhD, co-curated the two exhibitions along with Justin Richland, PhD, Associate Professor of Anthropology at the University of Chicago. Both Holy Bear and Pappan served as principal exhibition curators, choosing objects from the Museum's collections to be displayed alongside their own artwork.

As a teen, Rhonda Holy Bear moved to Chicago where she took many class trips to The Field Museum. She began making dolls at the age of 18 and started researching Native American artifacts in the Museum's collections. Soon, she had a following of collectors who sought her work. While collectors appreciate the artist's dolls for their high-level craftsmanship, there's a deeper meaning for Holy Bear. "My dolls represent my relatives, past, present, and future," she says. "Without them, I could not be who I am today."

Chris Pappan also has strong connections to Chicago where he has lived for more than 20 years. Pappan's work is inspired by ledger art, narrative drawings and paintings created on ledger book paper in the late 1800s and early 1900s by Plains Indian artists. This distinctive style of visual storytelling has its roots in earlier painting practices on bison and elk hides. But unlike the semi-abstracted figures in traditional Plains art, Pappan renders more photo-realistic images of Native peoples and, in the process, seeks to expose inaccurate ideas about Native American cultures.

Full Circle / Omani Wakan: Lakota Artist Rhonda Holy Bear and Drawing on Tradition: Kanza Artist Chris Pappan open on October 29 and close on January 13, 2019. **ITF**



National
Endowment
for the Arts
arts.gov

Full Circle/Omani Wakan: Lakota Artist Rhonda Holy Bear is made possible by a generous donation from Joyce Chelberg.

Drawing on Tradition: Kanza Artist Chris Pappan is supported in part by an award from the National Endowment for the Arts.

Additional support for the Chris Pappan exhibition and related outreach provided by the Julian Grace Foundation.



INDELIBLE

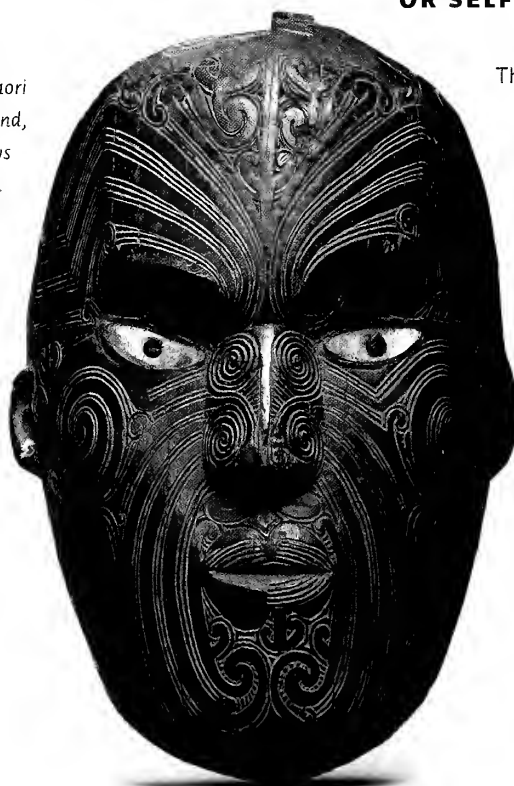
Exploring the Art and Culture of Tattoos

Kate Golembiewski, PR and Science Communications Specialist

“EVERY TATTOO HAS A STORY,” SAYS JAAP HOOGSTATEN, DIRECTOR OF EXHIBITIONS. INDEED, FOR THE THOUSANDS OF YEARS THAT HUMANS HAVE ADORNED THEIR BODIES WITH INDELIBLE INK, EACH TATTOOED ARTWORK HAS MEANT SOMETHING SPECIAL TO ITS OWNER, WHETHER IT IS OF A SENSE OF COMMUNITY OR SELF-EXPRESSION, OF PAIN OR PRIDE.

Created by a Maori artisan from New Zealand, this carved mask portrays traditional ta moko tattooing. Ta moko has undergone a revival in recent years, as Maori communities reaffirm their cultural identities.

© MUSÉE DU QUAI BRANLY – JACQUES CHIRAC / PHOTOS BY THIERRY OLLIVIER, MICHEL URTADO (RIGHT) AND THOMAS DUVAL (TOP OF PAGE)



The Field Museum’s special exhibition *Tattoo* delves into these stories. Opening October 21, the show explores the phenomenon of tattooing across the world and over time, shedding light on this often-misunderstood art form.

The exhibition features 125 objects, including ancient historical artifacts and intricate contemporary designs tattooed onto silicone models of the human body.

Developed by the musée du quai Branly–Jacques Chirac in Paris, *Tattoo* has its U.S. premiere at The Field, largely because of the initial enthusiasm of two Museum trustees: Peter Pond and Dawn Solomon. Pond, chair of the Board’s Exhibitions Committee, and his wife Alicia viewed *Tattoo* in Paris and were impressed by the exhibition and the long lines of people waiting to see it. Separately, Solomon and her husband David also saw the exhibition in Paris and advocated that The Field bring *Tattoo* to Chicago.

Tattoo Member Events

*Be one of the first people to see **Tattoo**!*

Join the Field Associates for *Tattoo*'s opening reception at **EVOLVE** on Saturday, October 22.

See page 19 for more details.

Can't make it to EVOLVE? There are other exclusive opportunities to see *Tattoo* as a Museum member:

Member and Donor Preview Days

Wednesday, October 19, 10am–4pm

Thursday, October 20, 9am–4pm

No reservations needed, just check in at the membership desk.

Members-only Viewing and Lecture

Tuesday, November 15, 5:30–9pm

For reservations and more information, visit fieldmuseum.org/memberevents.

TATTOO



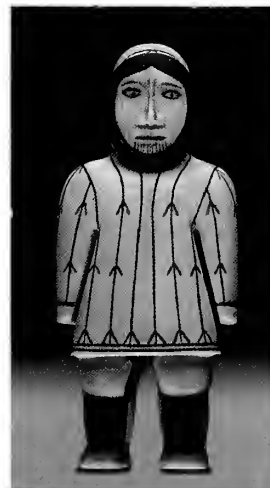
© JAKE VERZOSA, 2011

Whang-od Oggay is a master tattoo artist of the Kalinga people of the Philippines.

message of the exhibition is about human creativity. It goes beyond the stereotypes of tattoos to explore their aesthetics and artistry across cultures."

"Whether you're someone with tattoos yourself or someone who's interested in contemporary art practices and cultures around the world, this exhibition has something fascinating in store," says Hoogstraten. "Tattoos are a way to make what's inside of you, your experience, and your beliefs, manifest on your skin. It's powerful to encounter that." **ITF**

This exhibition and related programs are supported by a generous gift from an anonymous donor.



Tattoo will present objects from The Field Museum's collections including a female figurine from Alaska showing a Yupik woman's chin tattoos (above, left) and a carved wooden post for a Maori house (above, right).

A115269D_003B (LEFT), A115271D_015B (RIGHT) / JOHN WEINSTEIN

These tattooing tools from Argentina (left) are made of cactus needles.

© MUSÉE DU QUAI BRANLY - JACQUES CHIRAC / PHOTO CLAUDE GERMAIN

Facing Our Ancestors

New Sculptures by Elisabeth Daynès

Tom Skwerski, Exhibitions Project Manager

THE FIELD MUSEUM RECENTLY COMMISSIONED TWO REMARKABLE ADDITIONS TO THE GRIFFIN HALLS OF EVOLVING PLANET. Elisabeth Daynès, renowned paleoartist, created hyper-realistic sculptures of *Homo ergaster* and *Homo neanderthalensis* to help visitors better understand the evolutionary history of hominids like us.

The reconstruction of *Homo ergaster* is based on the skull of the fossil known as "Turkana Boy," the most complete skeleton known of any early hominid. This boy, estimated to be between ten and fifteen years old, lived and died near Lake Turkana in Kenya between 1.5 and 1.6 million years ago. Daynès worked with Martin Häusler, PhD, from the Institute of Evolutionary Medicine at the University of Zurich on the sculpture as new estimates of age and body measurements became available.

The reconstruction of the male Neanderthal is based mainly on the La Ferrassie 1 skeleton, although a few missing elements have been added from other individuals. This skeleton, estimated to be 50,000 to 70,000 years old, was discovered at the La Ferrassie site in France in 1909. The skull is the largest and most complete Neanderthal skull ever found and displays many of the classic features of Neanderthal anatomy, including a low sloping forehead, large nasal openings, and the absence of a chin.

The artist modeled each full-scale sculpture using the most current scientific data. The process is time-consuming and exacting. The face is first reconstructed in clay, with strips laid on the skull to represent the underlying muscular structure, and then "skin" is overlaid according to thickness measurements.

After the general outline of the face has been produced, the subject receives its persona. Meticulous attention is given to the tiniest details, from the shape of the eyelids to the texture of the skin, to give each subject its identity. A final molding of the clay reconstruction is made of silicone with hyper-realistic skin and coloration. Natural hair is painstakingly implanted with surgical precision.

These two full-body sculptures join two others by Daynès: a bust of Magdalenian Woman and a life-size reconstruction of "Lucy," a 3.2 million-year-old hominid. Together, all four sculptures provide insights into the appearance of our human relatives. **ITF**

This commission was made possible by a generous gift from Joyce Chelberg.

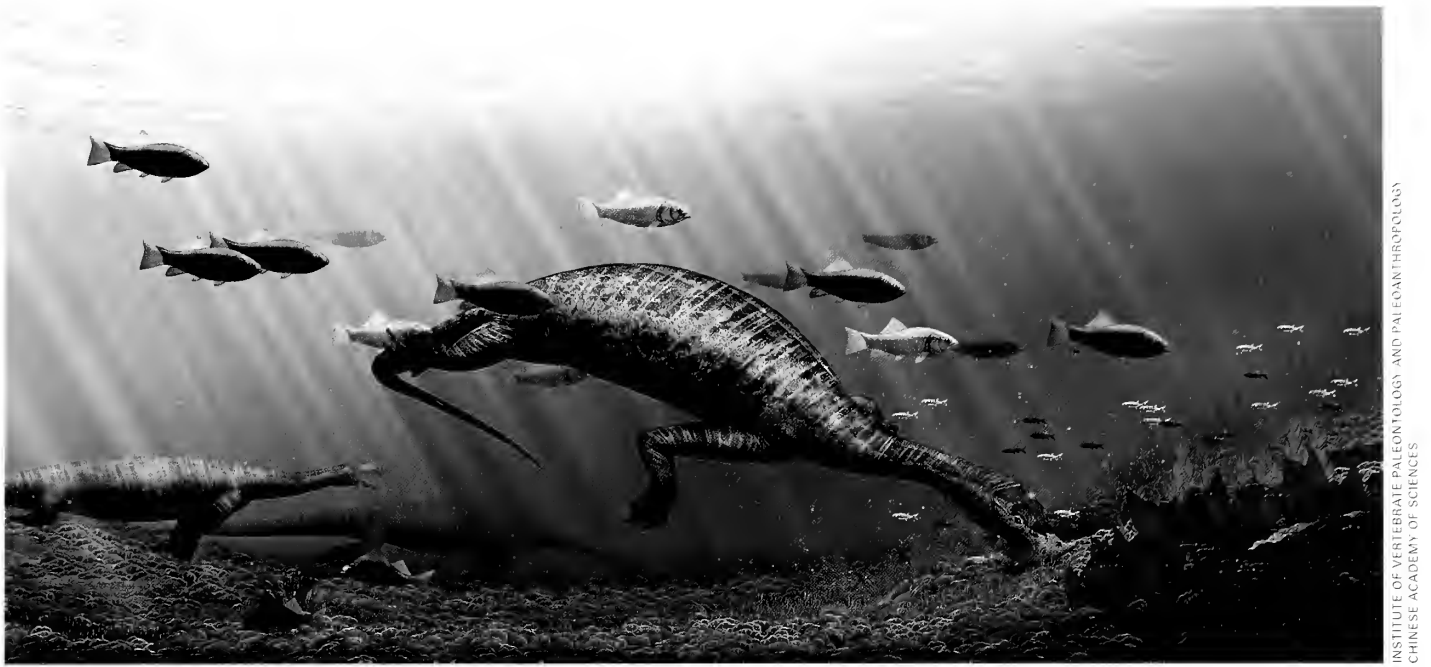


GN90846_144D / JOHN WEINSTEIN



Turkana Boy (left) and male Neanderthal (right)

RECONSTRUCTIONS: ELISABETH DAYNÈS PARIS
PHOTOS: © E. DAYNÈS



Ancient Marine Reptile

Atopodentatus unicus

Olivier Rieppel, PhD, Rowe Family Curator of Evolutionary Biology

APPROXIMATELY 251 MILLION YEARS AGO, THE MASS EXTINCTION AT THE END OF THE PERMIAN PERIOD WIPED OUT ROUGHLY 85 PERCENT OF LIFE ON EARTH. This event reset the evolutionary clock, enabling new lineages of organisms to diversify during the Triassic Period.

Over the past 16 years, vast excavations in southwestern China have yielded an incredible abundance of Triassic marine reptiles, spanning from the late Lower Triassic (246 million years ago) to the early Upper Triassic (232 million years ago). This exceptional fossil record allows unprecedented insight into the recovery of life in the sea after the end-Permian extinction event.

Part of that story is told by the recent discovery of the earliest herbivorous marine reptile known. Living about 242 million years ago, *Atopodentatus unicus* inhabited a shallow warm sea that once covered the continental plate called the South China Block. The crocodile-sized reptile sported a relatively small skull with jaws forming a bizarre hammerhead structure. An international team of scientists from Great Britain, China, and The Field studied the fossil remains of *Atopodentatus* to learn more about its unusual anatomy.

The reptile's uniquely specialized teeth indicate it was a plant eater. A series of broad flat teeth—called spatulate teeth—ran along the front margin of the upper jaw and were used to scrape off soft plant material (such as algae) from rock surfaces. A quick opening of the mouth created a suction effect that brought loose plant material into the mouth. Closing the jaws expelled water as plant material got caught inside palisades of densely set, needle-shaped teeth lining the upper and lower jaws. In essence, *Atopodentatus* used its teeth to filter plant material in the way some whales use baleen to strain zooplankton and krill from seawater.

The new reptile testifies to the early evolution of plant eaters among Triassic marine reptiles. *Atopodentatus* lived at the same time as a large predatory ichthyosaur known from excavations in Nevada. Together with a wealth of other fossils, these finds document a complex food web had re-established itself in the Triassic sea earlier than had previously been thought. **ITF**

To learn more,
read "The earliest herbivorous marine reptile
and its remarkable jaw apparatus" in *Science Advances*
at advances.sciencemag.org.

HONORING 50 YEARS OF SERVICE: A CONVERSATION WITH MARSHALL FIELD V

**THIS FALL, THE FIELD MUSEUM CELEBRATES TWO FIFTY-YEAR ANNIVERSARIES—
THE FOUNDING OF THE WOMEN’S BOARD AND THE BEGINNING OF MARSHALL FIELD V’S TENURE**

ON THE BOARD OF TRUSTEES. Field’s great-great-grandfather, Marshall Field I, helped found the Museum in 1893, and since then, various members of the Field Family have supported the Museum in multiple ways. *In the Field* is pleased to share a conversation between Women’s Board Gala Chair Caryn Harris and Marshall Field V about these golden anniversaries.



ANNA KNOTT

Caryn Harris: Marshall, when you first became a Trustee in 1966, what interested you about the Museum?

Marshall Field V: I thought, “Okay, I was asked to be a Trustee because my name is Marshall Field, and the Museum wants continuity.” So, I thought the best thing I could do was listen. I didn’t talk much at first, because I was still formulating my views. But over time, certain areas really began to interest me, and I spoke to those topics when the moments arrived.

CH: Was one of those topics environmental conservation?

MF5: Yes, though my thoughts on conservation have evolved over time. Initially, I considered conservation exclusively the work the Museum did in creating forest preserves in Peru and other places; and documenting wildlife through rapid assessments. But eventually, I came to see the unique importance of our collections to global conservation initiatives.

CH: How did you make that connection, between collections and conservation?

MF5: As climate change came into focus as an issue, it dawned on me the solution lay in our ability to predict what’s coming and to prepare for it. The only way you can reliably predict the future is by studying the past. The Earth has experienced many changes in climate. The Museum has been collecting for more than 120 years, and some of the objects in our collections are millions of years old. So, this is the place to examine specimens from different time periods, learn how climate affected them, and infer what a changing climate might mean for today’s environment. When I realized this, the collections became, for me, the most important part of the Museum.

Generations of the Field Family have served the Museum over the years. Marshall Field I (below) gave \$1 million to establish the Museum in 1893.

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CSGN45210

Evelyn Field (right) participated in Museum expeditions to South America in the 1920s.



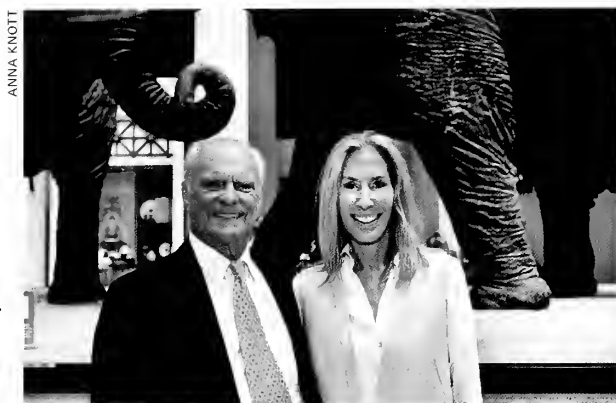
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Henry Field (above, center) served as a Museum anthropologist from 1926 to 1941.



CSZ52160 / CURZON TAYLOR

*Clockwise from right:
Marshall Field V and
Caryn Harris. Marshall
Field V speaks at the
opening of the Museum's
East Entrance in 2005.
Marshall Field V at the
opening of Evolving
Planet in 2006.*



ANNA KNOTT



GN90765_185D / JOHN WEINSTEIN



GN90844_057D / KIMBERLY MAZANEN

CH: In addition to developing a special interest in conservation, you've also watched the Museum grow significantly over the years.

MF5: Yes—I guess at this point you could consider me a historian! I can tell you things that happened twenty, thirty, forty years ago. I remember the Women's Board was founded the same year I became a Trustee (1966).

CH: It's wonderful you and the Women's Board share this milestone anniversary. This group enjoys a special partnership with the Museum and has a very positive influence on its work.

MF5: You were active and involved here at the Museum long before you joined the Women's Board, right?

CH: Yes, absolutely. The Museum has been a part of my life from the time I was a young mother. I'm an early elementary educator, so I have a deep appreciation for the role of a Museum in engaging children. Science has always interested me. I took our son John to the Museum almost every weekend, so he really grew up here. It was fun to go together as a family and see first-hand how the Museum's exhibitions influenced young people in powerful ways. So I am fortunate to have watched the Museum grow, first as a parent and now as a grandparent. As it turned out, John married your daughter Stephanie and now we share grandchildren! So it's meaningful for me to be part of honoring you and your legacy of leadership.

"I guess at this point you could consider me a historian! I can tell you things that happened twenty, thirty, forty years ago."

MF5: I don't know how, but I'm one of about three people in the world who loves to fundraise [laughs]. When I first became a Trustee, I thought, "Well, this is a role I can play that will be of great value to the institution." I always tell people, if you're raising money, you won't be good at it unless it's fun, so have a good time!

CH: You've been supporting the Museum for so long, and I know the Women's Board is looking forward to celebrating your contributions at the gala on October 29. The evening will emphasize service and leadership and reflect your interest in conservation, so it will have a very special look and feel, unlike anything we have done before!

MF5: Well, that sounds wonderful. I have to add, I'm just one of many in my family who have contributed to the Museum over the years. The Field Family has been involved through every generation, and I'm proud our daughter Jamee [Field Kane] recently joined the Board. It's a great reflection on the family, but an even greater reflection of the institution. Its mission has captivated all of us.

CH: I know you don't seek the spotlight or special recognition for what you enjoy doing. But thank you, Marshall, for letting us celebrate your 50th anniversary at this year's gala.

MF5: If it helps raise money for The Field Museum, then I'm delighted to play a part! **TF**

Lawrence R. Heaney, PhD, Negaunee Curator of Mammals

Danilo S. Balete, MS, Research Associate in Mammals

Eric A. Rickart, PhD, Research Associate in Mammals

Discovering Diversity Mammals of Luzon Island

HOW WELL DOCUMENTED IS TROPICAL BIODIVERSITY? Our new book, *The Mammals of Luzon Island: Biogeography and Natural History of a Philippine Fauna*, provides some startling answers based on 15 years of intensive study in the field and at the Museum.

Luzon has the world's highest density of endemic mammals and more species than many larger countries. Our studies yielded 57 species of bats, including some so tiny they can crawl through cracks in bamboo stems and roost inside the hollow nodes. Others weigh nearly two pounds and have five-foot wingspans. But it is the non-flying mammals that are most surprising. We documented 56 species of mammals—28 discovered during our studies—a full doubling of the species known previously. Of these 56 species, 93 percent occur nowhere else.

The reasons for this remarkable diversity involve a long evolutionary history in an isolated island environment. Our DNA-based studies show that 90 percent of the non-flying mammals evolved from just two ancestral species that arrived on Luzon from the Asian mainland, one about 14 million years ago and the other about 7 million years ago.



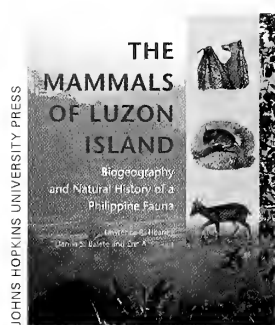
VELIZAR SIMEONOVSKI

Striped earth-mice eat earthworms almost exclusively.

When these ancestors first arrived, Luzon was a small oceanic island, but continued volcanic eruptions formed at least 10 isolated mountain chains. Today, each mountain chain has more unique, locally endemic species of mammals than any country in continental Europe. It is the sum of these many areas of unique diversity that together make Luzon such an outstanding center of mammalian diversity.

With a human population approaching 50 million in an area only slightly larger than Indiana—and with only about 6 percent of the original old-growth tropical rain forest remaining—Luzon is one of the most densely populated and extensively deforested places in the tropics. Challenges to conservation are many and diverse, but second-growth forest is increasing, no extinctions have yet been documented, and our recommendations for new national parks have been heeded. It is our hope that this book will help Philippine citizens celebrate, enjoy, and protect their natural environment as one of the finest parts of their national heritage. **ITF**

This project has received generous support from the Negaunee Foundation and the Barbara Brown Fund for Mammal Research.



Luzon Island's bushy-tailed cloud rats measure nearly a yard long.



VELIZAR SIMEONOVSKI

Amazonian Critter Camera

Catie Boehmer, Annual Giving Manager and Nigel Pitman, PhD, Mellon Senior Conservation Ecologist, Keller Science Action Center

THE AMAZONIAN RAINFOREST IS ONE OF THE MOST BIOLOGICALLY DIVERSE PLACES ON EARTH. BUT IT'S NOT ALWAYS EASY TO SEE THAT DIVERSITY—EVEN FOR SCIENTISTS EXPLICITLY TASKED WITH DOCUMENTING THE FLORA AND FAUNA OF THE REGION.

That hidden diversity poses a challenge to The Field Museum's rapid inventory team, which since 1999 has been surveying—and working to protect—remote wilderness areas in the tropics. One solution? A battery of motion-activated camera traps set up around their campsites, triggered to snap photos of passers-by.

At the Peruvian rainforest sites visited during the last two inventories, the cameras revealed a spectacular diversity of large mammals, including ocelots, giant armadillos, giant anteaters, tapirs, peccaries, and pacas. Not only did the camera traps allow

the team to document elusive species unlikely to have been seen during their visit, but they provided more data than could otherwise be collected during their small window of fieldwork. "Because the advance team that builds the trails and sets up camp can also deploy camera traps, we can gather a month's worth of information on the animals at a site we only visit for five days," explains MacArthur Senior Conservation Ecologist and Director of the Andes-Amazon Program Corine Vriesendorp, PhD.

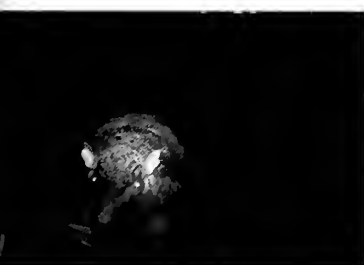
The photos also convey more about their subjects than just their presence in the area. Cameras installed around salt licks, burrows, or latrines provide some hints about how mammals are using the landscape. They offer clues about which species are common and which are rare, and occasionally they contribute brand-new observations on animal behavior—such as an elusive short-eared dog with a mouthful of fruit! Most importantly, they help cement the team's case for protecting the rainforests they visit.



Above (both images): White-lipped peccary, *Tayassu pecari*

Back at the Museum, the Keller Science Action Center's conservation team helps compile the images into field guides. Like the 650 other guides (that can be downloaded for free at fieldguides.fieldmuseum.org), these mammal guides give Amazonian scientists, students, and indigenous groups another tool to study (and protect) the world's richest forests—long after the rapid inventory team has returned to Chicago. **ITF**

Major Support of Andes-Amazon Program: The Boeing Initiative for Conservation and Community at The Field Museum, the Gordon and Betty Moore Foundation, and the John D. and Catherine T. MacArthur Foundation.



Above (top to bottom):
Armadillo, *Dasypus* sp.

Crab-eating raccoon, *Procyon*
Giant armadillo, *Priodontes maximus*

RAPID INVENTORY 28 MAMMAL TEAM:
PATRICIA ÁLVAREZ-LOAYZA, ADRIANA BRAVO,
AND DIEGO LIZCANO

Susan Golland, Exhibition Developer and
Aimee Davis, Volunteer and Public Learning Experiences Administrator

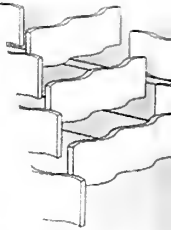
GRAINGER SCIENCE HUB

OPENING THIS FALL

WHEN IT OPENS ON NOVEMBER 18, GRAINGER SCIENCE HUB WILL TRANSFORM

THE VISITOR EXPERIENCE AT THE FIELD MUSEUM. This new activity space will showcase the Museum's

latest scientific research, present a rotating selection of artifacts and specimens, and facilitate greater interaction between visitors and staff. Located on the east side of Stanley Field Hall, *Grainger Science Hub* will serve as a focal point of learning and discovery where visitors can meet scientists, participate in hands-on activities, and examine collections objects up-close. Each experience will be unique, as staff members continually present new stories related to the Museum's scientific mission.



GN92278_017D / JOHN WEINSTEIN



Grainger Science Hub is located on the Museum's main floor just off Stanley Field Hall near the Haida Totem Poles. When it opens on November 18, this permanent activity space will be facilitated by Museum staff from 10am to 3pm, seven days a week.



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PEEK BEHIND THE SCENES

Video footage will provide rare glimpses inside the Museum's vast storage vaults, which contain many more objects than can be placed on public display. See the work of curators and managers as they expand, maintain, and study the Museum's collections.

MEET A SCIENTIST

Museum scientists will share highlights of their research with visitors. Meet them in-person or remotely from the field via live streaming. Topics will range from birds to bugs, plants to pottery, mammals to meteorites, and more!

INTERACT WITH COLLECTIONS

Rotating displays will feature intriguing specimens and artifacts — from fossils and fishes to skulls and spear points — all culled from the millions stored in the Museum's expansive collections, including those which have helped researchers solve scientific mysteries.



ENGAGE WITH EDUCATORS

Field Museum educators will staff Grainger Science Hub everyday and share stories about the latest scientific research happening behind the scenes at the Museum. They will relate new discoveries, present objects, and facilitate hands-on activities.

Grainger Science Hub is generously supported by The Grainger Foundation.

Z95205_21BD / JOHN WEINSTEIN (SKULL)

Terracotta Warriors

Ancient Pigments and Modern Physics

Lisa C. Niziolek, PhD, Boone Research Scientist, Asian Anthropology / Deborah A. Bekken, PhD, Director, Government Affairs and Sponsored Programs / Gary M. Feinman, PhD, MacArthur Curator of Mesoamerican, Central American, and East Asian Anthropology

ICONIC IMAGES OF CHINA'S 2,200-YEAR-OLD TERRACOTTA WARRIORS ARE RECOGNIZED AROUND THE WORLD. But few people realize the size and complexity of the First Emperor's mausoleum site, the extent of the emperor's impact on Chinese history, or the relevance of China's ancient scientific discoveries for today's technological innovations.

China's First Emperor and His Terracotta Warriors examines the extraordinary achievements of Qin Shihuangdi, the man who unified China's warring states and became the First Emperor. The exhibition explores his massive funerary park, a burial complex that covers more than 21 square miles and contains hundreds of underground



chambers. Within these offertory pits, archaeologists have uncovered a variety of terracotta figures, including thousands of soldiers, court officials, musicians, acrobats, horses—and even bronze aquatic birds—all created to serve the emperor in the afterlife.



Today, the surfaces of most of these terracotta figures appear somber and colorless, but originally they were brightly painted using a range of rare and expensive mineral colors, including red (cinnabar), green (malachite), and blue (azurite). The most intriguing among these is Chinese purple—or “Han purple”—one of the world's earliest artificial pigments and unique to China at that time. More

a vibrant blue than a purple, the pigment was produced using barium copper silicate and initially may have been a byproduct of the manufacturing of “artificial jade,” a type of glass. Researchers have found evidence of Chinese purple on beads dating to the eighth century BC; however, its use ceased in the third century AD. Its chemical formula, $\text{BaCuSi}_2\text{O}_6$, was not rediscovered for almost 1,700 years, and scientists are only now beginning to understand its structure and properties.

Physicists are using Chinese purple to investigate dimensionality and superconductivity. Under certain conditions (such as extremely low temperatures), three-dimensional $\text{BaCuSi}_2\text{O}_6$ begins to behave as if it has only two dimensions. Thus, the rediscovery of this ancient formula, which adorned the protectors of the tomb of one of China's most influential figures, has implications for the study of our universe, as well as practical applications for the development of better and more efficient computers, modes of transportation, and even medicine. **ITF**





IMAGES (CLOCKWISE FROM ABOVE): GN92241_008AD / JOHN WEINSTEIN;
© SHAANXI CULTURAL HERITAGE PROMOTION CENTER AND EMPEROR QIN SHIHUANGDI'S
MAUSOLEUM SITE MUSEUM; GN92238_003BD / JOHN WEINSTEIN



This exhibition was organized by The Field Museum in partnership with the Shaanxi Provincial Cultural Relics Bureau, Shaanxi Cultural Heritage Promotion Center, and Emperor Qin Shihuang's Mausoleum Site Museum of the People's Republic of China.

Major Sponsors:

DISCOVER  Exelon. UNITED 

Drink Up!

New Discoveries in Andean Peru

Ryan Williams, PhD, Associate Curator of Anthropology

INSPIRED BY ARCHAEOLOGICAL RESEARCH, THE FIELD MUSEUM RECENTLY INTRODUCED A NEW LIMITED-EDITION BEER IN ITS FIELD BISTRO. Wari Ale, born of a collaboration with Chicago-based Off Color Brewing, was derived from archaeological discoveries in Peru. The *chicha de molle*-inspired beverage—made with purple maize and pink peppercorns—proved popular this past summer with Museum visitors.

The story behind its unearthing continues to unfold as Museum archaeologists return to Peru to excavate around an ancient brewery site.

The brewery was discovered atop the isolated mountain summit of Cerro Baúl, where people from the Wari Empire (AD 600–1000) established an exalted city and embassy on the frontier with their imperial rivals, the people of Tiwanaku.

Baúl was first discovered by Field Museum and Peruvian researchers in the early 1980s, when a team led by emeritus curator Mike Moseley, PhD, established the Contisuyo research program in far southern Peru. Since 1997, Adjunct Curator Donna Nash, PhD, and I have been directing excavations at the site, revealing not only the Andes' oldest large-scale brewery, but also the principal palace of the ancient Wari lords. We have also discovered the earliest temples in the region, one of which was dedicated to the deities worshipped by the Tiwanaku, making Baúl a sort of Jerusalem of the Andes. Peoples of different religious faiths practiced within a highly controlled and contested ground on the summit of the mesa.



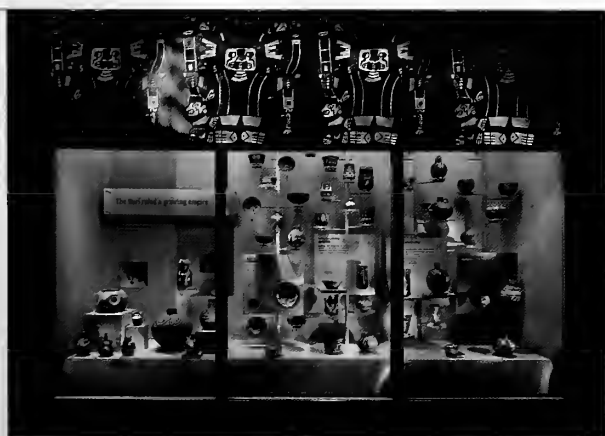
The summit of Cerro Baúl is an important Wari ceremonial site in the Peruvian Andes.

Archaeology, however, is not just about discovering lost temples, palaces, and breweries. Excavations also reveal the houses and tombs of ancient farmers and artisans—the people who largely built Wari society. Investigating their lives leads to a better understanding of the roles each individual played and creates a more complete picture of the culture. This holistic approach provides clues to the demise of the Wari, and in the process, we learn how we, as humans, create and destroy our own futures within our societies.

So, as you enjoy a Wari Ale in the Field Bistro—and revel in the history embedded in it—reflect on how our past shapes our future. **ITF**

Want to learn more about the Wari?

Visit The Field Museum's ground-breaking permanent exhibition, *The Ancient Americas*. There you will find artifacts from ancient Peru's Wari Empire, including ceremonial vessels that once contained *chicha*, a (typically) fermented beverage made from maize.



GN92276 0278D / JOHN WEINSTEIN



JILL SEAGARD / THE FIELD MUSEUM

WHAT'S YOUR FAVORITE MUSEUM



WHAT'S YOUR FAVORITE OBJECT ON DISPLAY AT THE FIELD MUSEUM?

The magazine's editorial team asked five Museum staff members to choose which objects and displays resonated with them. Their answers provide compelling stories about the Museum's history and legacy of scientific research, while others recount personal connections to The Field's collections. On your next trip to the Museum, see if you can find these "hidden" gems on display in the public exhibition halls.

LESSER KUDU

Mark Alvey, Science Communications Manager



GN92272_017D

Thirty million objects, 26 years working at The Field, and I'm supposed to pick just one favorite? (Okay, Mr. Editor, fine!) I'll pick this juvenile Lesser Kudu scratching its ear with its hind leg. It's located

in a taxidermy group tucked waaaay back in the African Mammals hall, almost as if it was meant to be overlooked. This group was one of the first—maybe *the* first—to be created for the Museum by Carl Akeley after returning from his first Africa expedition in 1896. Akeley did not

invent the habitat group, nor was he the first to add painted backdrops to dioramas. But he strove for a level of realism that was unheard of at the time and remains unsurpassed today. This little antelope is a shining example.



GN92275_012AD

TOTEM POLE AND ORCA BLANKET

Daniel Breems, Exhibitions Production Director



GN92273_002D

When I was a young boy, my father was a graduate student at the University of British Columbia where the famous Museum of Anthropology is located. Sometimes my father would take me there, and I have very

fond memories of viewing totems and Native art. I became enthralled with the Orca. The way the killer whale is depicted and celebrated in Northwest Coast Native culture makes it my favorite animal. Whenever I enter The Field Museum's Alsdorf Hall of Northwest Coast and Arctic Peoples, I experience feelings of nostalgia, happiness, and intrigue. I like to look up at the Mythical Grizzly Bear;

standing beneath it makes me feel like a kid again. I then stop to view the Chief's Blanket, which depicts killer whales.



A114870D_005

PHOTOS BY JOHN WEINSTEIN UNLESS OTHERWISE NOTED.
TOP OF PAGE: A106310C / RON TESTA (ORCA BLANKET);
GEO86500_089D / KAREN CARR (TRICERATOPS ILLUSTRATION)

OBJECT?

Compiled by Franck Mercurio, Editor



GN91311_20

BUITRERAPTOR GONZALEZORUM

Akiko Shinya, Chief Preparator, Fossil Vertebrates



GN92269_006D

One of my favorite objects is displayed in the Griffin Halls of *Evolving Planet*: a cast of *Buitreraptor gonzalezorum*. Brothers Fabian and Jorge Gonzalez found the sickle-clawed *Dromaeosaur*—a small feathered dinosaur—at La Buitrera, Argentina, in 2004. Field Museum Associate Curator Peter

Makovicky, PhD, brought the specimen back to Chicago for research. I worked with a team of five preparators to clean this delicately preserved specimen and created a mounted cast for display—my first big team

project at the Museum! Twelve years later, the Museum still collaborates with paleontologists involved in the *Buitreraptor* project as we continue to unearth new species of dinosaurs from Patagonia.



GEO86430_30D

STANLEY FIELD HALL

Ernst Pierre-Toussaint, Director of Facility Planning

& Operations



GN92268_025D

The Field Museum has many fine spaces, but to me, there is no finer than Stanley Field Hall. It inspires curiosity and wonder, drawing in visitors for further inquiry. Here, you

can see the Fighting African Elephants, the Haida Totem Poles, and of course, SUE, the *T-rex*. From above, sculptor Henry Hering's *Four Muses* watch over these icons. One cannot help but marvel at the Hall's expansive skylights, conceived by architect William Pierce Anderson to complete a Beaux Arts-style masterpiece and provide natural light in the days before reliable electric lighting. In so many ways, the Hall is a constant reminder of the foresight and vision of the original architects and founders of the Museum, protecting and disseminating the knowledge of the priceless collections within.

TRICERATOPS

Lucille Carver, Social Media Strategist



GN92271_016D

When I was young, if asked what I wanted to be when I grew up, I answered enthusiastically "a paleontologist." I've loved dinosaurs since I was a kid, and so my favorite specimen in the collection is absolutely the *Triceratops* in *Evolving Planet*. It's hard not to love their frills and large heads, which make up one-third the length of their entire bodies! Although I'm not a paleontologist, being the Museum's

social media strategist is the next best thing, because I work in a building filled with dinosaurs, and I get to work with the scientists who study them. **ITF**



GN90846_138D

What's your favorite object or display at The Field Museum?

Visit fieldmuseum.org/ITFpoll and let us know.

We might even publish your favorite in the next issue!

events



ART AND SCIENCE SPOTLIGHT @ Crown Family PlayLab

Listen to storytellers, sing with musicians, and create with artists in the *Crown Family PlayLab*. Designed for children ages 6 and under. Fantastic Fish (9.17), Nocturnal Animals (10.15), Birds of Prey (11.19), and Winter in the Wild (12.17). FREE.

**Third Saturday of the month /
11am–2pm**

FAMILIES / KIDS / TEENS / ADULTS



LEARNING CENTER / THE FIELD MUSEUM

DOZIN' WITH THE DINOS Spend the night at The Field Museum!

Overnights are held on select Fridays and Saturdays from 5:45pm to 9am the following morning. Designed for families with children ages 6–12 years old. Visit fieldmuseum.org/overnights for dates.

Standard Overnight: \$65, \$60 members/groups

Premium Package 1: \$78, \$68 members

Premium Package 2 + Tour: \$90, \$80 members

Select Fridays + one Saturday in 2017

FAMILIES / KIDS / TEENS / ADULTS



LEARNING CENTER / THE FIELD MUSEUM

LEARNING THROUGH COLLECTIONS Professional Development for Educators

How can educators work with museum objects and collections in their classrooms? By incorporating Learning Collection items into curriculums, science education can be hands-on, collaborative, and inquiry-based. FREE with pre-registration.

**Select Saturdays / Sept 24 / Oct 15 /
Nov 5 / 9:30am–12 noon**

ADULTS / EDUCATORS / PARENTS



LEARNING CENTER / THE FIELD MUSEUM

TWEEN SATURDAYS

Be a scientist for the day and discover the connections between bugs, blossoms, ancient cultures, and more alongside Field Museum scientists. FREE with registration. Space is limited. Designed for ages 11–14. \$20, \$15 members

**Select Saturdays / Sept 24 / Oct 1 /
Oct 15 / Oct 29 / Nov 12 / Dec 3 / 10am**

FAMILIES / KIDS / TEENS / ADULTS



CURIOCITY

Calling all teens! Join us for an evening of conversation as we bring together a Field Museum scientist and a professional in a cultural career to explore what links their seemingly unconnected paths. Teens only. FREE. Visit fieldmuseum.org/curiocity for dates and times.

FAMILIES / KIDS / TEENS / ADULTS

FORUM @ THE FIELD

This exciting professional development opportunity for pre-K-12 educators is designed to enhance understanding of Museum teaching and learning techniques, provide exposure to the Museum's unique and varied collections, and provide opportunities to mingle with like-minded colleagues. FREE with pre-registration.

Science > Thurs / Oct 20 / 4–8pm

Social Studies > Thurs / Oct 27 / 4–8pm

ADULTS / EDUCATORS / PARENTS

N. W. HARRIS LEARNING COLLECTION

Fall hours start September 6!

By lending artifacts and specimens, the *N. W. Harris Learning Collection* at The Field Museum gives educators and parents the opportunity to take part of the Museum's collection to their classrooms or homes. For more information, visit harris.fieldmuseum.org. Memberships range from \$10 to \$100.

**Tuesdays + Wednesdays / 3–7pm
Saturdays / 9am–5pm**

ADULTS / EDUCATORS / PARENTS

For event details, program registration, and to explore the Museum's other events, please visit fieldmuseum.org/calendar.



GN92117_102D / JOHN WEINSTEIN

WOMEN IN SCIENCE

Field Museum Women in Science is dedicated to inspiring, encouraging, and increasing participation of women in the sciences. Each month, the group organizes a lecture by a leading woman scientist. The theme of this year's lecture series is "enhancing and promoting diversity in science." All are welcomed to attend. FREE. Visit fieldmuseum.org/womeninscience for dates, times, and topics.

ADULTS / EDUCATORS / PARENTS



LEARNING CENTER / THE FIELD MUSEUM

DISCOVERY SQUAD

Meet the Field Museum Discovery Squad! Peek behind the curtain and learn the inside scoop on the collections in our vaults. Our Discovery Squad members show you real objects from our collection and answer your questions. FREE. Visit the Museum's website for more information.

Select weekdays + weekends this fall

FAMILIES / KIDS / TEENS / ADULTS



COURTESY OF MUSIC BOX THEATRE

CINEMA SCIENCE

In partnership with the Music Box Theatre, The Field Museum presents Cinema Science, a series of film screenings exploring scientific topics as depicted in the movies. Each month, a Museum scientist chooses a film that relates to their area of expertise and then discusses the film with the audience, post-screening.

Cinema Science takes place at the Music Box Theatre located at 3733 N. Southport Avenue in Chicago. Limited space available; advance tickets recommended. \$10

Visit fieldmuseum.org/cinemascience for a complete list of upcoming movies.

Tuesday / September 20 / 7:30pm

STAND BY ME with Alison Paul

Saturday / October 29 / 12 noon

THE MUMMY with Cassie Pontone

ADULTS / EDUCATORS / PARENTS

THE A. WATSON ARMOUR III RESEARCH SEMINAR

The A. Watson Armour III Research Seminar is The Field Museum's weekly academic seminar series. Talks are on Wednesdays at noon and feature speakers from around the world presenting topics related to the Museum's research and conservation activities. Talks are geared toward an academic audience, but open to members. For more information, visit fieldmuseum.org/armour.

ADULTS / EDUCATORS / PARENTS



KEITH NIXON PHOTOGRAPHY

EVOLVE

THE FIELD ASSOCIATES ANNUAL FUNDRAISER

Would you like to be one of the first people to see The Field Museum's special exhibition, *Tattoo*? Join the Field Associates, the Museum's young professionals auxiliary group, as they host EVOLVE on Saturday, October 22. This annual fundraiser will serve as the opening reception for *Tattoo*.

Don't miss your opportunity to view this provocative new exhibition from Paris while enjoying hors d'oeuvres, sipping craft cocktails, and drinking beer from local Chicago breweries. \$100 general admission; \$125 VIP.

VIP guests will have exclusive food and drink options, as well as an opportunity to mingle with Museum curators as they discuss *Tattoo*.

For more information and tickets, visit fieldmuseum.org/fieldassociates.



All are welcomed; guests must be 21 and over; cocktail attire preferred.



Saturday / Oct 22 / 9pm-12am



© FOTO

WELCOME NEW INDUCTEES FIELD LOYALTY CLUB



CSGN44679 / CHARLES CARPENTER

THE FIELD MUSEUM EXTENDS ITS APPRECIATION TO ALL MEMBERS OF THE FIELD LOYALTY CLUB.

Their 20-plus years of dedication sets a philanthropic example for fellow supporters, visitors, and friends and ensures the Museum's bright future.

This list reflects the newest inductees to the Field Loyalty Club—the "Class of 2015"—who became 20-year Museum members and donors as of December 31, 2015.

If you feel an error has occurred in compiling this list or want more information about the Field Loyalty Club, please contact Mike Wren at 312.665.7137 or mwren@fieldmuseum.org.

Thank you!

Anonymous (2)

Ms. Eva Adler and Ms. Lorica Adler

Mrs. Arlene C. Arado

Mrs. Karen Barak

Mr. and Mrs. Randolph C. Barba

Mr. and Mrs. Mervin R. Barnes

Mr. and Mrs. Allan R. Bartel

Mr. John M. Beal

Ms. Nancy Behrendt

Mr. and Mrs. Donald A. Belgrad

Dr. Rüdiger Bieler[^] and Dr. Petra Sierwald[^]

Ms. Sandra Blau

Mr. and Mrs. William R. Blew, Jr.

Ms. M.D. Blohm

Mr. Glen L. Bower

Mrs. Barbara A. Boyer

Mr. and Mrs. Frederick W. Brooke III

Mr. and Mrs. Steve Buening

Mrs. and Mr. Shann Bulger

Mr. Thomas Chin and Ms. Cheryl Yuen

Mr. and Mrs. Reginald L. Ciokajlo

Dr. and Mrs. Rosecraign Collins

Mr. and Mrs. James J. Conrad

Mr.* and Mrs. Frank W. Considine

Mr. and Mrs. Joseph E. Coughlin

Mr. and Mrs. Frederick Daley, Jr.

Mr. John E. Deimel

Ms. Joan DeRycke

Dr. and Mrs. Eugene R. DeSombre

Mrs. Uta DeTappan-Staley

William Dewoskin and Wendy S. Gross

Mr. and Mrs. William H. Docherty, Jr.

Mrs. Dorothy Domuray

Mrs. Jean Donnelly

Ms. Dolores M. Dorman

Mr. William H. Drendel

Mr. and Mrs. James Esters, Jr.

Mrs. Anne H. Evans

Ms. Irene Falout

Mrs. Jane T. Fenninger

Mr. Thomas Flanders

Ginny and Peter Foreman

Mr. George W. Foster

Mr. Stan Friedlander

Marilyn F. Fritz

Ms. Leanne V. Galvin

Mr. Donald C. Gancer

Mr. and Mrs. Ed Garman

Mr. Marty Germann

Mrs. Adele B. Gidwitz

Mr. S. Bradley Gillaugh

Mr. Lyle Gillman

Mr. and Mrs. William H. Gofen

Mr. and Mrs. Donald F. Goldsmith

Mr. and Mrs. O. R. Goltra

Mr. and Mrs. John K. Greene

Mr. and Mrs. Donald Gwinn

Dr. Joseph R. Hageman

Mr. Richard A. Hanson

Beverly and Warren Hayford

Mr. and Mrs. O. J. Heestand, Jr.

Ms. Beverly K. Helm

Ms. Barbara J. Henney

Mr. Bernard A. Hennig

Mr. and Mrs. Steven J. Henry

Mr. and Mrs. Ward A. Highstone

Mr. and Mrs. Barry G. Hoyt

Dr. and Mrs. Michael Jablon

Mr. Carl W. Johnson and

Mrs. Laura M. Bloom-Johnson

Ms. Patricia M. Kammerer

Ms. Linda L. Kantor

Ms. Dolores Kohl Kaplan

Mrs. Mary L. Kaulas

Mrs. Joan M. Kelly

Ms. Doris Kennedy and Mr. Joseph Hoffman

Mr. and Mrs. Terrence Kennedy

Mr. Mort Kessler

Charles and Marion Kierscht

Mr. and Mrs. Richard L. Kina

Mr. Jerry A. Kolar

Mr. and Mrs. Robert S. Kosin

Dr. Robert A. Kubicka and Dr. Claire Smith

Mr. and Mrs. Dirk B. Landis

Mr. William W. Lane
 Mr. and Mrs. Arnold Learner
 Mr. and Mrs. Nicholas Lembares
 Ms. Carolyn S. Levin
 Mrs. Harriett J. Lindstrom
 Ms. Juanita M. Lo Giudice and
 Ms. Angela Lo Giudice
 Mr. Robert B.* and Mrs. Gail J. Loveman
 Charlene and Gary MacDougal
 Mr. and Mrs. Arthur C. Martinez
 Mr. and Mrs. Peter J. Maxwell
 Mr. Kevin C. McDonald and Ms. Judy A. Chan
 Ms. Eileen A. McNulty
 Mr. and Mrs. James R. Meindl
 Mr. and Mrs. Donald Meints
 Mr. and Mrs. Boyd Melvin
 Mr. David Moberg and Ms. Jo Patton
 Ms. Linda Monroe
 Mr. and Mrs. John A. Morris
 Ms. Karen M. Mueser
 Mr. and Mrs. Robert E. Nickel
 Mr. and Mrs. Joseph J. Occhipinti
 Mr. and Mrs. William W. Oelman
 Miss Marie E. Olsofka
 Mr. and Mrs. Carl B. Olson
 Mr. and Mrs. Norman Olson
 Ms. Kathleen O'Meara and Mr. James Farrell
 Dr. Lois R. Owens and Ms. Kimberly D. Owens
 Stanley Parzen and Lynne Raimondo
 Mr. and Mrs. Scott Petersen
 Mr. and Mrs. Howard J. Peterson
 Mr. and Mrs. Thomas D. Philipsborn
 Dr. Robert B. Pildes and Dr. Rosita S. Pildes
 Ms. Helen S. Reed
 Mrs. Jeannette Reuben
 Mr. Neil W. Rickert
 Mr. and Mrs. Stephen Sandler
 Mr. and Mrs. Thomas J. Schultz
 Mr. and Mrs. John W. Sereda, Jr.

JIM AND CAROL CONRAD

Jim Conrad is something of a Field Museum "lifer." He was a frequent visitor as a child, then took a brief hiatus to go away to college. When he returned to the Chicago area as a teacher—for both Hinsdale elementary schools and Morton Junior College—he resumed his visits to the Museum, bringing his students with him.

"It's a great way to get students more excited about learning," he reminisces. "Because we're not in the classroom, it's not a typical learning environment or a typical assignment they have to do. They might need that change of scenery to jumpstart their enthusiasm." As a professor of geography, Traveling the Pacific in the Regenstein Halls of the Pacific was one of Jim's favorite highlights to share with his classes.

Museum members for more than 20 years, Jim and his wife Carol have been inducted into the Field Loyalty Club. For the couple, supporting the Museum is an easy choice. "When we were deciding where to buy a house, we knew we wanted a place where we could pay off the mortgage quickly so we'd always have extra money to use for a good purpose."

Mr. and Mrs. James A. Shapiro
 Dr. and Mrs. David M. Shapiro
 Mr. and Mrs.* Jeffrey S. Sharp
 Mr. Francis L. Sheahen
 Mr. Herbert S. Siegel
 Mrs. Kass F. Sigal
 Mrs. and Mr. Ina Simon
 Mrs. Harriet F. Sitron
 Mr. and Mrs. Robert E. Snyder
 Dr. and Mrs. Earl N. Solon



GN92238-003AD / JOHN WEINSTEIN

After doing just that—in only five years!—Jim and Carol gradually increased their level of support, eventually joining the Founders' Council, the Museum's giving circle of members who contribute \$2,500 or more per year.

Now retired, but still an educator at heart, Jim points to the Museum's influence on young scientists as a reason he and Carol support the institution. "To be a great educator, you have to be deeply invested in your students' success or in the topic at hand—or both. I see Museum staff who love their subject and exude enthusiasm for the kids they're engaging with. They just reel them in, and that's something we're proud to support."

Mr. and Mrs. Albert Y. Sora
 Ms. Nancy Ashley Spencer
 James and Pamela Stola
 Mrs. Julie Stumpf
 Mr. and Mrs. Dominic P. Turchi
 Mr. and Mrs. Vernon Wedow
 Dr. and Mrs. Walter W. Whisler
 Mrs. Joan K. Wilson
 Ms. Barbara A. Winikates
 Mr. Douglas E. Zimmer



GN91912_042BD / JOHN WEINSTEIN

OCTOBER FIELD GIVING DAY

HOW DO YOU CARE FOR A DINOSAUR? CAREFULLY!

And, how do you care for a collection of more than 30 million specimens and artifacts?

Even *more* carefully. Did you know that only *one percent* of the Museum's collections is on display?

As one of the world's largest natural history museums, we care for an extraordinary number of objects, fueling research, public learning, and conservation efforts around the globe.



GN91299_058D / KAREN BEAN



GN92150_558D / JOHN WEINSTEIN

TO DO SO, WE RELY ON YOU. Only *33 percent* of the Museum's funding comes from tickets and government sources. Save the date and join us on social media for **FIELD GIVING DAY** on Wednesday, **OCTOBER 5**. Tell friends you care for *your* museum. Make a gift from \$5 to \$500. Your support of the Annual Fund stewards the Museum, today and for generations to come. Learn more at fieldmuseum.org/givingday.

MAKE YOUR GIFT ON OCTOBER 5.

- visit fieldmuseum.org/givingday
- text "SUE" to 71-777
- call 312.665.7777

Thank you in advance for your support!



Make Your Mark at the Tattoo Store

Whether tiny and hidden or a full-color "sleeve," tattoos can be whimsical or deeply personal, born of an impulsive moment or years of contemplation. Some feature the contemporary markings of an urban tribe—rebellious and defiant—while others are rooted in ancient cultures and traditions. Yet all speak to the needs and desires of the adorned and the talents of the artists who create them.

Explore the fascinating, often provocative, world of body adornment in *Tattoo*, then bring home a tattoo-inspired memento from the exhibition store.

Remember, Field Museum members receive a 10 percent discount on all Store purchases, and each purchase supports the Museum's public and scientific programs. As always, you can shop 24 hours a day at store.fieldmuseum.org.



Add some history to your family traditions and celebrate the holidays at The Field Museum...

this year for members only! Enjoy a buffet breakfast in Stanley Field Hall and share all of your holiday wishes when you take your picture with Santa and SUE.

Saturday, **December 10** and Saturday, **December 17**

Seatings at **9am** and **10am** each day

Members: \$35 (*adult*), \$25 (*child*)

Tickets on sale October 24. For more information, call 312.665.7705 or visit fieldmuseum.org/memberevents.

museum campus neighbors

ADLER PLANETARIUM

Space is mind-blowingly awesome; explore it at the Adler! Follow Apollo 13 Captain James A. Lovell Jr. to the Moon and back in **Mission Moon**. Take on a design challenge in the interactive **Community Design Lab**. Explore the largest of Pluto's neighbors in the latest sky show, **Planet Nine**. On October 28, watch MIT Professor Nergis Mavalvala bring to life the historic discovery of gravitational waves inside our domed theater. For more details, visit www.adlerplanetarium.org.

SHEDD AQUARIUM

In September, Shedd celebrates seniors with complimentary passes for guests 65 and better on Wednesdays and Thursdays, 9am–2pm. Shedd's annual release party for **Penguin Hops**, a craft beer created with aquarium-grown hops by Revolution Brewing, takes place on October 26. Families will want to put on their wildest costumes for the **Spooky Seas Halloween** overnight on October 28. And holiday programming runs from late November through New Year's Day. (Closed Christmas Day.) For more details, visit www.sheddaquarium.org.



The Field Museum salutes the people of Chicago for their long-standing support of the Museum through the Chicago Park District.

Official Airline of The Field Museum



MEMBER APPRECIATION WEEK

MONDAY, OCTOBER 17–SUNDAY, OCTOBER 23



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WITH GRATITUDE FOR YOUR SUPPORT OF THE FIELD MUSEUM, JOIN US AS WE CELEBRATE MEMBER APPRECIATION WEEK. We've planned seven days of exclusive opportunities and fun perks—just for you, our members!

- Be one of the first to see *Tattoo*, the Museum's provocative fall exhibition. Member Preview Days are Wednesday, October 19 (10am–4pm) and Thursday, October 20 (9am–4pm).
- Join Museum docents on guided tours of our permanent exhibitions.
- Participate in daily drawings for a chance to win free tickets to *Terracotta Warriors*, 3D movies, Adopt a Dino packages, and more!
- Enjoy a free cup of coffee in the Bistro each morning (9–10:30am).

Visit fieldmuseum.org/memberevents for a full list of events and special perks planned exclusively for members! Thank you for making our work possible by supporting the Museum's scientific research, conversation programs, and a growing collection of 30 million specimens and objects.



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GIVE THE GIFT OF MEMBERSHIP

As a current Field member, you already know the benefits of Museum membership. For the holidays, share the gift of discovery with someone special in your life. Holidays come around once a year, but a Field Museum membership brings joy and excitement to loved ones all year long.

You can order online at fieldmuseum.org/membership, call us at 312.665.7700, or visit the membership desk.

Gift memberships include:

- Free Basic admission, along with free or discounted tickets to each special exhibition
- Invitation to the popular annual Members' Nights
- Discounts in the Museum's stores and restaurants and on educational programs
- Subscription to *In the Field* member magazine
- and so much more!